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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/475,643	12/30/1999	MICHAEL A. JASSOWSKI	042390.P7143	6610

7590

12/03/2002

JOHN P WARD BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP 12400 WILSHIRE BOULEVARD 7TH FLOOR LOS ANGELES, CA 90025

EXAMINER	
CRUZ, LOURDE	ES C

ART UNIT

PAPER NUMBER

2827

DATE MAILED: 12/03/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

		Qm.			
:	Application No.	pplicant(s)			
Office Action Summary	09/475,643	JASSOWSKI, MICHAEL A.			
Office Action Summary	Examiner	Art Unit			
Th. MAN INO DATE (4)	Lourdes C. Cruz	2827			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by stream of the control of the control of the months after the meanned patent term adjustment. See 37 CFR 1.704(b). Status	N. R 1.136(a). In no event, however, may a reply within the statutory minimum of th riod will apply and will expire SIX (6) MC atute, cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
1) Responsive to communication(s) filed on	<u>03 September 2002</u> .				
2a)⊠ This action is FINAL. 2b)□	This action is non-final.				
3) Since this application is in condition for all					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims					
4) \boxtimes Claim(s) <u>1-16</u> is/are pending in the applica	tion.				
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-16</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction an	d/or election requirement.				
Application Papers					
9) The specification is objected to by the Exam					
10)⊠ The drawing(s) filed on <u>30 <i>December 1</i>999</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11)☐ The proposed drawing correction filed on	· · · · · · · · · · · · · · · · · · ·	disapproved by the Examiner.			
If approved, corrected drawings are required in reply to this Office action.					
12)☐ The oath or declaration is objected to by the	Examiner.				
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:					
 Certified copies of the priority documents have been received. 					
2. Certified copies of the priority documents have been received in Application No					
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
a) The translation of the foreign language provisional application has been received.					
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.					
Attachment(s)	" []	Owner (PTO 440) F. St. No.(c)			
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)			

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DETAILED ACTION

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the lead frame coupled via wires must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Although Applicant points out in the remarks that such is shown in Fig. 1, see that Fig. 1 is prior art.

Claim Objections

Claims 7,8,15,16 are objected to because of the following informalities: See, for example, that claim 7 will be grammatically correct and the scope will be made clear if amended to read "...claim 6, wherein each of the plurality..." The same applies for all other objected claims. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

⁽e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

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The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1-7 are rejected under 35 U.S.C. 102(e) as being anticipated by Miki et al. (US 5892276).

Miki et al. discloses an apparatus comprising (See Fig. on cover):

- A plurality of bond pads 4B configured in an array;
- A first plurality of driver cells 8P located nearer to a nearest (edge closest to pads) die edge than the plurality of bond pads; and a second plurality of driver cells 8n located farther from the nearest edge than the plurality of bond pads
- Bond pads configured in a staggered array
- Pre-driver cells 10GND located farther from the nearest die edge than the second plurality of driver cells, with an inner/outer ring of bond pads (See Fig. on cover)
- Metal connections 9B, each of the metal connections coupling one of the first and second plurality of driver cells to one of the plurality of bond pads

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 Conductive interconnects 9, each of the plurality of pre-driver cells coupled to one of the first and second pluralities of driver cells be at least one of the plurality of conductive interconnects

 The plurality of conductive interconnects 9 substantially more narrow in width than the plurality of metal connections

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 8-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Miki et al.

See that Miki et al. discloses all the structural limitations discussed above. However see that Miki et al. fails to specifically disclose:

- Driver cells with a width of approximately 80 microns
- A lead frame

See that:

• The claimed width does not cause any critical or unexpected results to the device's operation. Rather it is merely an obvious design choice determined by routine experimentation. In Aller, the court stated "Where the general conditions of a claim are disclosed in the

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prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation." *In re Aller*, 220 F.2d 454, 456 105 USPQ 233,235 (CCPA 1995).

Also, see that although Miki et al. is silent about the use of a lead frame, lead frames are well known and widely used among semiconductor artisans, and applicant admits so in page 4 of the amendment/remarks.

Therefore:

It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to incorporate pads of the claimed width and to use a lead frame in order to provide the device enough interconnecting/bonding area and a good well known frame in order to connect the bond pads via bond wires.

Applicant's arguments with respect to the claims have been considered but are most in view of the new grounds of rejection, which was necessitated by the amendment.

Applicant's amendment necessitated the new grounds of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

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TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Lourdes C. Cruz whose telephone number is 703-306-

5691. The examiner can normally be reached on M-F 10-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David L Talbott can be reached on 703-305-9883. The fax phone numbers

for the organization where this application or proceeding is assigned are 703-308-7722

for regular communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 703-308-

0956.

Lourdes Cruz

November 6, 2002

Lourdes C. Cruz Examiner

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KAMAND CUNEO
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800